

SEQUENCE LISTING

<110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE

<120> METHOD FOR INDUCING VIRAL RESISTANCE INTO A PLANT

<130> P.SES.03/EP

<140> 99200773.2

<141> 1999-03-12

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 357

<212> DNA

<213> Beet necrotic yellow vein virus

<220>

<221> CDS

<222> (1)..(354)

<400> 1

atg tct agg gaa ata acc gct cga ccc aat aag aat gtg cct att gtt	48
Met Ser Arg Glu Ile Thr Ala Arg Pro Asn Lys Asn Val Pro Ile Val	
1 5 10 15	
gtt ggt gtt tgt gtt gtg gct ttc ttt gta ttg ctg gcg ttc atg cag	96
Val Gly Val Cys Val Val Ala Phe Phe Val Leu Leu Ala Phe Met Gln	
20 25 30	
caa aaa cat aag aca cat tct ggg ggt gat tac gga gtc cca aca ttt	144
Gln Lys His Lys Thr His Ser Gly Gly Asp Tyr Gly Val Pro Thr Phe	
35 40 45	
tct aac ggt ggt ata tat aga gac ggt aca aga tca gct gat ttt aat	192
Ser Asn Gly Gly Ile Tyr Arg Asp Gly Thr Arg Ser Ala Asp Phe Asn	
50 55 60	
agt aac aat cat cgt gct tac ggg tgc ggt ggg tct ggg ggt agc gtt	240
Ser Asn Asn His Arg Ala Tyr Gly Cys Gly Gly Ser Gly Gly Ser Val	
65 70 75 80	
agt agt cga gtt ggg cag caa ctt att gtg tta gct att gtt tct gtg	288
Ser Ser Arg Val Gly Gln Gln Leu Ile Val Leu Ala Ile Val Ser Val	
85 90 95	
tta ata gtg tca cta tta caa cga tta agg tct cca cca gaa cac att	336
Leu Ile Val Ser Leu Leu Gln Arg Leu Arg Ser Pro Pro Glu His Ile	
100 105 110	
tgt aat ggt gct tgt ggt taa	
Cys Asn Gly Ala Cys Gly	357
115	

<210> 2

<211> 118

<212> PRT

<213> Beet necrotic yellow vein virus

<400> 2

Met Ser Arg Glu Ile Thr Ala Arg Pro Asn Lys Asn Val Pro Ile Val
1 5 10 15

Val Gly Val Cys Val Val Ala Phe Phe Val Leu Leu Ala Phe Met Gln
20 25 30

Gln Lys His Lys Thr His Ser Gly Gly Asp Tyr Gly Val Pro Thr Phe
35 40 45

Ser Asn Gly Gly Ile Tyr Arg Asp Gly Thr Arg Ser Ala Asp Phe Asn
50 55 60

Ser Asn Asn His Arg Ala Tyr Gly Cys Gly Gly Ser Gly Gly Ser Val
65 70 75 80

Ser Ser Arg Val Gly Gln Gln Leu Ile Val Leu Ala Ile Val Ser Val
85 90 95

Leu Ile Val Ser Leu Leu Gln Arg Leu Arg Ser Pro Pro Glu His Ile
100 105 110

Cys Asn Gly Ala Cys Gly
115

<210> 3

<211> 357

<212> DNA

<213> Beet necrotic yellow vein virus

<220>

<221> CDS

<222> (1)..(354)

<400> 3

atg tct agg gaa ata acc gct cga ccc aat aag aat gtg cct att gtt 48
Met Ser Arg Glu Ile Thr Ala Arg Pro Asn Lys Asn Val Pro Ile Val
1 5 10 15

gtt ggt gtt tgt gtt gtg gct ttc ttt gta ttg ctg gcg ttc atg cag 96
Val Gly Val Cys Val Val Ala Phe Phe Val Leu Leu Ala Phe Met Gln
20 25 30

caa gca gct gcg aca cat tct ggg ggt gat tac gga gtc cca aca ttt 144
Gln Ala Ala Thr His Ser Gly Gly Asp Tyr Gly Val Pro Thr Phe
35 40 45

tct aac ggt ggt ata tat aga gac ggt aca aga tca gct gat ttt aat 192
Ser Asn Gly Gly Ile Tyr Arg Asp Gly Thr Arg Ser Ala Asp Phe Asn
50 55 60

agt aac aat cat cgt gct tac ggg tgc ggt ggg tct ggg ggt agc gtt 240
Ser Asn Asn His Arg Ala Tyr Gly Cys Gly Gly Ser Gly Gly Ser Val
65 70 75 80

agt agt cga gtt ggg cag caa ctt att gtg tta gct att gtt tct gtg 288
Ser Ser Arg Val Gly Gln Gln Leu Ile Val Leu Ala Ile Val Ser Val

85

90

95

tta ata gtg tca cta tta caa cga tta agg tct cca cca gaa cac att 336
 Leu Ile Val Ser Leu Leu Gln Arg Leu Arg Ser Pro Pro Glu His Ile
 100 105 110

tgt aat ggt gct tgt ggt taa
 Cys Asn Gly Ala Cys Gly 357
 115

<210> 4

<211> 118

<212> PRT

<213> Beet necrotic yellow vein virus

<400> 4

Met Ser Arg Glu Ile Thr Ala Arg Pro Asn Lys Asn Val Pro Ile Val
 1 5 10 15

Val Gly Val Cys Val Val Ala Phe Phe Val Leu Leu Ala Phe Met Gln
 20 25 30

Gln Ala Ala Ala Thr His Ser Gly Gly Asp Tyr Gly Val Pro Thr Phe
 35 40 45

Ser Asn Gly Gly Ile Tyr Arg Asp Gly Thr Arg Ser Ala Asp Phe Asn
 50 55 60

Ser Asn Asn His Arg Ala Tyr Gly Cys Gly Gly Ser Gly Gly Ser Val
 65 70 75 80

Ser Ser Arg Val Gly Gln Gln Leu Ile Val Leu Ala Ile Val Ser Val
 85 90 95

Leu Ile Val Ser Leu Leu Gln Arg Leu Arg Ser Pro Pro Glu His Ile
 100 105 110

Cys Asn Gly Ala Cys Gly
 115